

Fibre-optic assemblies

Plastic fibre-optics

General data

Detection mode	diffuse mode
Temperature range	-30 °C ... +70 °C
Bending radius	ø 2,2: ≥ 25 mm ø 1: ≥ 12 mm
Material cable housing	polyethylene

Plastic fibres are supplied with cutter and bush kits

Dimensions [mm]

Type

Ident. number

	<p>PBP46U</p>	<p>39 114 00</p>
	<p>PBT46U PBT46UHT1²⁾ PBT46UHF³⁾</p>	<p>39 080 30 42 799 30 51 784</p>
	<p>PBT66U</p>	<p>30 399 82</p>
	<p>PBP26U</p>	<p>39 154 00</p>
	<p>PBP16U</p>	<p>30 399 92</p>
	<p>PBT26U</p>	<p>39 134 00</p>
	<p>PBT16U</p>	<p>30 428 22</p>
	<p>PBT46UC</p>	<p>39 216 00</p>

¹⁾ Bendable probes should not be bent less than 12 mm from each extremity, bending radius ≥ 12 mm.

²⁾ Temperature range for plastic fibre models HT: -30 °C...125 °C.

³⁾ Minimum bending radius for plastic fibre models HF: 1 mm.

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General data	Detection mode: opposed Temperature range: -30 °C ... +70 °C Bending radius: ø 2,2: ≥ 25 mm ø 1: ≥ 12 mm Material cable housing: polyethylene	Dimensions [mm]	Type	Ident number
Plastic fibres are supplied with cutter and bush kits			PIP46U (supplied in pairs)	39 152 00
			PIT46U PIT46UHT1 ²⁾ PIT46UHF ³⁾ (supplied in pairs)	39 250 00 30 428 04 30 517 83
			PIT66U (supplied in pairs)	30 398 99
			PIP26U (supplied in pairs)	39 372 00
			PIP16U (supplied in pairs)	30 350 44
			PIT26U (supplied in pairs)	39 138 00
			PIT16U (supplied in pairs)	30 399 83
			PIT46UC (supplied in pairs)	39 373 00

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Dimensions [mm]

Type

Ident. number

	<p>PBCT23T D12 only</p>	<p>30 391 46</p>
	<p>PBFM1X43T D12 only</p>	<p>30 383 28</p>
	<p>PBF46U PBF46UHF²⁾</p>	<p>30 260 35 30 517 86</p>
	<p>PBPMSB36U</p>	<p>30 387 11</p>
	<p>PBR1X326U</p>	<p>30 399 87</p>
	<p>PBPFB26UMB</p>	<p>30 391 16</p>
<p>Bifurcated unterminated fibres</p>	<p>9,15 m 18,3 m</p> <p>2 x 1 mm 2 x 1 mm</p>	<p>PBU430U PBU460U</p> <p>39 370 00 39 371 00</p>

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General data	Detection mode	Temperature range	Bending radius	Material cable housing	Dimensions [mm]	Type	Ident number
Plastic fibres are supplied with cutter and bush kits	opposed	-30 °C ... +70 °C	$\varnothing 2,2: \geq 25 \text{ mm}$ $\varnothing 1: \geq 12 \text{ mm}$	polyethylene			
						PIF46U PIF46UHF ²⁾ PIF46UHT1 ³⁾ (supplied in pairs)	39 137 00 30 517 85 30 517 68
						PIA26U (supplied in pairs)	39 217 00
						PIPS26U (supplied in pairs)	30 350 41
						PIR1X166U (supplied in pairs)	30 391 52
						PITP16U (supplied in pairs)	30 399 93
						PIFM1X46U (supplied in pairs)	30 386 36
Bifurcated unterminated fibres	18,30 m	1 x 0,5 mm				PIU260U PIU430U PIU460U PIU630U PIU660U	39 221 00 30 267 51 39 374 00 30 399 97 30 399 98
18,30 m	1 x 1,0 mm			9,15 m	1 x 1,0 mm		
18,30 m	1 x 1,5 mm			9,15 m	1 x 1,5 mm		
18,30 m	1 x 1,5 mm						

¹⁾ Bendable probes should not be bent less than 12 mm from each extremity, bending radius $\geq 12 \text{ mm}$.

²⁾ Minimum bending radius for plastic fibre models HF: 1 mm.

³⁾ Temperature range for plastic fibre models HT: -30 °C...125 °C.

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Plastic fibre-optics

General data Temperature range -30 °C ... +70 °C
 Bending radius $\varnothing 2,2: \geq 25 \text{ mm}$
 $\varnothing 1: \geq 12 \text{ mm}$
 Material cable housing polyethylene

Plastic fibres are supplied with cutter and bush kits

	Dimensions [mm]	Type	Ident number
		PDIS46UM12 bifurcated fibre	30 428 80
		PIE46UT (supplied in pairs)	30 480 40
		PFS69S6 (PB...46/66...) PFS53S6 (PB...16/26...) PFS44S6 (PI...46/66...) (PI...16/26...) field-adaptable sheathing for plastic fibre-optics	30 428 24 30 428 25 30 428 26
		PIL46U (supplied in pairs)	30 340 80
		PIRS1X166UMPMAL (supplied in pairs)	30 480 66
		PBE46UTMLLP PBE46UTMLLPHT1 ¹⁾	30 480 56 30 518 30

¹⁾ Temperature range for plastic fibre models HT: -30 °C...125 °C.

Fibre-optic assemblies

Fibre-optics: accessories

	Dimensions [mm]	Type	Ident number
<p>L9M8: Glass lens with anodised blue aluminium housing, used to extend the range of opposed mode fibre-optic systems.</p> <p>L10M8: Glass lens with anodised red aluminium housing, used with bifurcated threaded fibres primarily for register mark sensing. The light is focused to a point as small as 0,8 mm when used with a 1,5 mm bundle.</p> <p>Temperature range: 315 °C max.</p>		Lenses for glass fibres L9M8 L10M8	37 747 00 37 748 00
<p>To increase the range of an opposed mode sensor.</p> <p>Material: lens glass housing L16FM8 Delrin max. 105 °C L16FALM8 anodised alu. max. 315 °C L16FSSM8 stainless steel max. 480 °C</p>		Lenses for glass fibres L16FM8 L16FALM8 L16FSSM8	37 754 00 37 755 00 37 756 00
<p>Used for liquid level sensing. When used with a bifurcated threaded fibre, the light is reflected back to the sensor when the probe is not in the liquid. This glass version is used when chemical and acid resistance is required. Fixing collar is in stainless steel.</p> <p>Temperature range: -140 °C...+250 °C.</p>		Quartz glass probe TGRM8MM (stainless steel) for glass fibres	37 750 00
<p>Used for liquid level sensing. Polypropylene housing, Quartz glass probe.</p> <p>Temperature range: -30 °C...+70 °C</p>		Probe TGR3/8MPFMQ for plastic fibre-optics	30 232 68
		Lenses for plastic fibre-optics L2 L2RA (right-angle) L4C6 (focal distance 6 mm) L4C20 (focal distance 20 mm)	37 496 00 37 496 01 30 415 17 30 686 29
<p>Lens to increase the range of opposed mode plastic fibres. The lens is field mountable on the fibre with a shrink fitting.</p> <p>Only suitable for fibre types PIU4...U.</p>		Lenses for plastic fibre-optics L08FP	37 749 00
<p>Plastic fibre-optic cutter kit. Each kit contains 10 cutters and 40 bushings: PFK20 for fibre diameters of 0,5 mm, PFK40 for fibre diameters of 1 mm.</p> <p>PFC-1-25 contains 25 cutters only.</p>		Cutter for plastic fibre-optics PFK20 PFK40 PFC-1-25	37 889 00 37 727 00 30 340 94